		A
Notice of Allowability	Application No.	Applicant(s)
	10/016,210	MUFFOLETTO ET AL.
	Examiner	Art Unit
	Angela J. Martin	1745
The MAILING DATE of this communication appea All claims being allowable, PROSECUTION ON THE MERITS IS (C herewith (or previously mailed), a Notice of Allowance (PTOL-85) o NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG of the Office or upon petition by the applicant. See 37 CFR 1.313 a	PR REMAINS) CLOSED in this ap rother appropriate communication HTS. This application is subject.	oplication. If not included
1. This communication is responsive to 11/06/03.		
2. The allowed claim(s) is/are <u>1-28</u> .		
3. The drawings filed on are accepted by the Examiner.		
 Acknowledgment is made of a claim for foreign priority undo a) ☐ All b) ☐ Some* c) ☐ None of the: 		·
Certified copies of the priority documents have b	een received.	
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received: 5. Acknowledgment in mode of a claim for departure of a	0511000000000	
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.		
(a) 🛄 The translation of the foreign language provisional application has been received.		
 Acknowledgment is made of a claim for domestic priority unde in the first sentence of the specification or in an Application Da 	er 35 U.S.C. §§ 120 and/or 121 si ata Sheet. 37 CFR 1.78.	nce a specific reference was included
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this below. Failure to timely comply will result in ABANDONMENT of this	application. THIS THREE-MOI	NTH PERIOD IS NOT EXTENDABLE.
 A SUBSTITUTE OATH OR DECLARATION must be submitte INFORMAL PATENT APPLICATION (PTO-152) which gives r 	eason(s) why the oath or declara	'S AMENDMENT or NOTICE OF tion is deficient.
 CORRECTED DRAWINGS (as "replacement sheets") must be (a) ☐ including changes required by the Notice of Draftsperson' 1) ☐ hereto or 2) ☐ to Paper No. 	e submitted. s Patent Drawing Review (PTO-	948) attached
(b) ☐ including changes required by the proposed drawing corre	ection filed which has be	on opproved by the Evenine
(c) I including changes required by the attached Examiner's Ar	mendment / Comment or in the O	ffice action of Paper No
Identifying indicia such as the application number (see 37 CFR 1.84(each sheet. Replacement sheet(s) should be labeled as such in the r	c)) should be written on the drawin nargin according to 37 CFR 1.121(c	gs in the front (not the back) of d).
 DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT FOR THE 	of BIOLOGICAL MATERIAL m DEPOSIT OF BIOLOGICAL MAT	nust be submitted. Note the FERIAL.
Attachment(s)		
Notice of References Cited (PTO-892)	5 Notice of Informal Pat	ent Application (PTO-152)
Police of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No. 12/12/2001 Examiner's Comment Regarding Requirement for Deposit of Biological Material		PTO-413), Paper No. <u>11/2003</u> .
	7☐ Examiner's Amendme	
		of Reasons for Allowance
	9☐ Other .	Of Reasons for Allowance
		AJM

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The Applicant claims an electrochemical cell having a solid cathode, an anode and an ionically conductive electrolyte activating the anode and the cathode, the improvement in the cathode comprising a substrate having opposed first and second major faces; and a cathode active material provided as a physical vapor deposited layer coated on both of the first and second major faces of the substrate.

Applicant claims a secondary electrochemical cell, which comprises a casing, a negative electrode, a positive electrode comprising a positive electrode active material provided as a physical vapor deposited layer coated on opposed first and second major faces of a substrate, wherein the positive electrode active material is selected from the group consisting of lithiated oxides, lithiated sulfides, lithiated selenides, and lithiated tellurides of at least one selected from the group consisting of vanadium, titanium, chromium, copper, tin, molybdenum, niobium, iron, nickel, cobalt, manganese, and mixtures thereof; and an electrolyte activating the electrodes housed in the casing.

The Applicant claims a cathode of an electrochemical cell, which comprises a substrate of electrically conductive material having opposed first and second major faces and cathode active material supported on both of the first and second major faces of the substrate, wherein the layer of cathode active material is characterized as having been deposited onto the substrate by a physical vapor deposition coating process.

The prior art of record, Takeuchi et al., U.S. Pat. No. 5,569,558, and Klementowski, U.S. Pat. No. 5,616,429, disclose a secondary electrochemical cell,

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which comprises a casing, a negative electrode, a positive electrode comprising a positive electrode active material provided as a physical vapor deposited layer.

However, the prior art of record do not teach the secondary cell comprising a cathode comprising a substrate having opposed first and second major faces; and a cathode active material provided as a physical vapor deposited layer coated on both of the first and second major faces of the substrate.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 703-305-0586. The examiner can normally be reached on Monday-Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 703-308-0756. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-872-9306 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

AJM December 19, 2003

CAROL CHANEY
PRIMARY EXAMINER

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